



PDS with a *Set* Error

- Select ***PDS*** and the ***Scenario*** button from the main Menu Panel
 - The Scenario Definition Menu Panel will appear
- Select ***View***
 - The PDS Stream Menu Panel will be displayed
- Select the ***ap0257*** button
 - The Packet Definition panel will be displayed
- Select ***Yes*** in the Errors field
 - The Error Listing Definition panel will be displayed
- Select ***AddError*** button
 - The Error Definition menu panel will be displayed



PDS with a *Set* Error (Cont'd)

- Enter *seterr* in the Label field
- Select **Set** as the Type
- The *Convey Error* field should be set to *No*
- The *Units with Error* field should be set to *All*
- Enter:
 - 4 in the Start Bit field
 - 4 in the Total Bit field
 - 6 in the Value field
- Select **OK** to save Close to and exit
 - The error should be listed on the Error Listing display



PDS with a *Set* Error (Cont'd)

- **Select the error on the screen**
 - The error name will now be listed in the **Selected Error Field**
- **Select *Close* to exit the *Error Listing* menu panel**
- **Proceed as discussed previously for PDS Generation**
- **Select the script button**
 - A new script will be generated with error information



Script Loading and Modification

- Use the previously saved PDS scenario
- Select PDS from the main SCTGEN GUI menu panel
- Select the *Load* option under the Scenario menu
 - The Input Window menu panel will be displayed
- Enter the script name in the scenario field on the input window menu panel, select Load
 - Note: Do not have to enter *.script* extension
- A second input window containing spacecraft id is displayed, select OK



Script Modification (Cont'd)

- PDS Stream Menu Panel will be displayed
- Select the *Script* button
 - The Script Window is displayed
- At this point it is possible to edit the script
- The script window serves as a text editor
- You can use the GUI screens to make changes and regenerate the script
- You may also use a UNIX text editor to modify the script
- Changes made outside of GUI screens *are not* saved in the tcl file.



Creation of SCTGEN Data from CCSDS Packets

- **Used for externally created packets that are in CCSDS format**
- **Accessed from the Packet Data Region Definition Display**
- **APID and packet length must match data in packetfile**
- **SCTGEN will skip packets that do not match the APID and packet length information**



Creation of SCTGEN Data from CCSDS Packets (Cont'd)

- Select the Input Units Option
- Enter the pathname for the file in the File field
- Enter length
- Select the *packetfile* option
 - When this option is selected SCTGEN reads the header information from each packet



Command Line Execution of Scripts

- You can run existing scripts from the UNIX command line
- To run an existing script invoke the SCTGEN executable
 - Example:
 - » `../Tiger/bin/sctgen scriptname`



SCTGEN Script Run Error Messages

- **Error messages are in the following form:**
 - `stream.pkt.ap0257.region.data: path must exist and does not ...`
 - followed by references to where in the application code error occurred
- **We are interested in the first message**
 - “`stream.pkt.ap0257.region.data`” is the line in the script that contains the error
 - “`path must exist and does not`” provides information on what is causing the error
 - » This message indicates that the packet stream `stream.pkt.ap0257.region.data` is missing information from the Data Region Definition menu panel associated with packet `ap0257`



SCTGEN Script Run Error Messages (Cont'd)

- **These lines in the script relate to the GUI menu panels where the data was initially entered**
- **For instance, this message indicates information was not entered on the DATA Region Definition menu panel for APID 257**

Note: At this point the error may be corrected by modifying the script to contain the path information or the information may be on the DATA Definition menu panel through the GUI



Summary

- **Environment dependent modifications to the start up script may be needed**
- **PDS/EDS script generation follows same procedure**
- **Able to execute scripts from the SCTGEN GUI or the UNIX command line**
- **SCTGEN User's Guide may be found at <http://esdis.gsfc.nasa.gov/ETS/etsdoc.html>**